ORAL CAVITY

No. 525
Cf. #406
Denied-3/7/64

THE COUNCIL FOR TOBACCO RESEARCH - U.S.A.

SUCCESSOR TO THE
TOBACCO INDUSTRY RESEARCH COMMITTEE
633 THIRD AVENUE
NEW YORK, N. Y. 10017

COMMITTEE:
Dr. Lynch, Chm.
Dr. Reimann
Dr. Little

Application For Research Grant

Date: November 19, 1965

1. Name of Investigator:
Lawrence F. Quigley, Jr., B.S., A.B., D.M.D., M.S.
C. M. Cobb, III, S.B., Ph.D.

2. Title:
Affiliate, Forsyth Dental Center
Affiliate, Forsyth Dental Center

3. Institution & Address:
Forsyth Dental Center, 140 Fenway, Boston, Mass.

4. Project or Subject:
Measurement of Oral Temperatures During Conventional and Reverse Cigar Smoking

5. Detailed Plan of Procedure (Use additional pages if more space is required.)

Palatal cancer is a rare disease and the etiology is unknown. Possible protective mechanisms may be supplied by the oral flora, salivary constituents, or the hereditary cytological pattern of the human organism. Despite the normal rarity of palatal cancer, a great increase in its frequency has been reported by many workers who have studied reverse smokers (Shirokov, Lepp and Wenger, Redi, and Racugno, etc.)

In an effort to reveal pertinent facts of the tobacco cancer relationship a study has been carried out by these workers on reverse cigarette smokers of the Netherlands Antilles. The typical reverse smoker in this location has smoked six to twenty cigarettes a day for over thirty years. The oral condition reveals a thick, tough, leathery palate, with marked leukoplakia and scarred burned areas. Gross examinations of several hundred reverse cigarette smokers in the Netherlands Antilles revealed an absence of malignancy. A detailed examination of 21 of these patients likewise revealed normal cytological and morphological characteristics. No cellular dysplasia was evident as determined by cytologic and biopsy reports. Necropsy statistics in the Netherlands Atnilles showed the same indidence of palatal cancer as in the U. S. where no reverse smoking has been reported.

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Source: https://www.industrydocuments.ucsf.edu/docs/lpwm0000

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Section 5 continued:

Reports of our studies are enclosed for your consideration.

The data of the Netherlands Atnilles do not support the studies of other workers who have examined reverse cigar smokers almost exclusively. One explanation is that only reverse cigar smoking is carcinogenic. There is also the possibility that ethnic differences may be the cause of the different frequencies of palatal cancer.

These investigators have already reported on the temperatures of reverse cigarette smoking. They now propose to extend the study to include reverse cigar smokers.

Much palatal carcinoma has been reported for reverse cigar smokers in Panama by research workers (Shirokov et al). The studies on the tissue temperatures produced during reverse cigarette smoking indicated that cellular damage was partly caused by radiation burns. Higher tissue temperatures with greater burn damage are anticipated for the reverse cigar smokers. Experimental measurements are necessary to confirm this.

It is proposed to measure the oral and tissue temperatures of during reverse cigar smoking. The experiments will be designed to isolate effects caused by infrared radiation from the glowing cigar tip.

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6. Budget Plan:

a.	Salaries	840
b.	Expendable Supplies	~~1700~~ 1655
c.	Other Expenses	1100
d.	Permanent Equipment	
e.	Overhead (~~15~~ 20% of a, b, c)	719
	Total	4314

7. Anticipated Duration of Work:

March 1966 to March 1967

8. Facilities and Staff Available:

Facilities of Forsyth Dental Center
Laboratory at Sanborn Company, Waltham, Mass.

9. Additional Requirements:

None

10. Additional Information (Including relation of work to other projects and other sources of support):

Please refer to Section 5.

Also, "Measurement of Oral and Buring Zone Temperatures During Conventional and Reverse Cigarette Smoking" Quigley, Cobb, Hunt Arch. of Oral B.

See, J.A.D.A. article, "Reverse Smoking in Caribbean Peoples"

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Signature Lawrence F. Quigley Jr.
Director of Project

Director, John M. Hess
Business Officer of the Institution

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ESTIMATED COST FOR THE MEASUREMENT OF ORAL TEMPERATURES DURING CONVENTIONAL AND REVERSE CIGAR SMOKING

Personnel:	
Lawrence F. Quigley, Jr.	no salary
C. M. Cobb	no salary
Graduate student	840
Expendable Supplies:	
Thermocouples (Baldwin, Lima, Hamilton)	1500
Micro Miniature Thermocouples, $25/ther; 10 pts at 6 thermo/pt	
Electrical Supplies	150
Cigars 25 at 20c. ea.	5
Permanent Equipment:	
Rental of 4 track 8 channel recorder	900
Rental of camera equipment	200
Overhead	719
	$4314

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